IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT application of:

Applicant: Adam CAPEWELL et al.

Application No: 10/595,658

Filing Date: May 3, 2006

FORMATION OF LATTICE-TUNING SEMICONDUCTOR SUBSTRATES Title:

REQUEST FOR CORRECTED FILING RECEIPT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Attn: Application Processing Division's Customer Correction Branch

Dear Sirs:

Request hereby is made for issuance of a corrected Filing Receipt. The original Filing Receipt, edited copy enclosed, reflects incorrect Domestic Priority data.

Please forward a corrected Filing Receipt to the undersigned.

Respectfully submitted,

RENNER, OTTO, BOISSELLE & SKLAR, L.L.P.

By /Mark D. Saralino/ Mark D. Saralino, Reg. No. 34,243

1621 Euclid Avenue, 19th Floor Cleveland, Ohio 44115 (216) 621-1113

|--|

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Commissioner for Patents address below. X being transmitted via the USPTO Electronic Filing System.

/Mark D. Saralino/ January 16, 2009 Date

Mark D. Saralino



APPLICATION

NUMBER

10/595,658

<u>United States Patent and Trademark Office</u>

1030

GRP ART

UNIT

2812

UNITED STATES DEPARTMENT OF COMMERCE UNITED STATES DEFARMMENT OF COMMI United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginis 22313-1450 www.uspto.gov

FIL FEE REC'D ATTY.DOCKET.NO TOT CLAIMS IND CLAIMS

MARSP0175US

17

FILING RECEIPT

CONFIRMATION NO. 4245

43076 MARK D. SARALINO (GENERAL) RENNER, OTTO, BOISSELLE & SKLAR, LLP 1621 EUCLID AVENUE, NINETEENTH FLOOR CLEVELAND, OH 44115-2191

FILING or

371(c) DATE

10/07/2008

Date Mailed: 10/29/2008

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Applicant(s)

Adam Daniel Capewell, Warwickshire, GBN, UNITED KINGDOM;

Evan Hubert Cresswell Parker, Goucestershire, GBN, UNITED KINGDOM;

Timothy John Grasby, Solihull, GBN, UNITED KINGDOM; Power of Attorney: The patent practitioners associated with Customer Number 43076

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/50022 10/28/2004

Foreign Applications

UNITED KINGDOM 0326321.7 11/12/2003

RENNER, OTTO, BOISSELLE & SKLAR

If Required, Foreign Filing License Granted: 10/27/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 10/595.658**

Projected Publication Date: 02/05/2009

Non-Publication Request: No

Early Publication Request: No

(19) World Intellectual Property Organization

International Bureau



A SECTION DE LA COMPANION DE L

(43) International Publication Date 26 May 2005 (26.05.2005)

PCT

(10) International Publication Number WO 2005/048330 A1

(51) International Patent Classification⁷: C30B 25/04

H01L 21/20,

(21) International Application Number:
PCT/GB2004/050022

(22) International Filing Date: 28 October 2004 (28.10.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0326321.7

12 November 2003 (12.11.2003) GB

(71) Applicant (for all designated States except US): UNIVER-SITY OF WARWICK [GB/GB]; Coventry, Warwickshire CV4 7AL (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CAPEWELL, Adam, Daniel [GB/GB]; 16 Cowdray Close, Learnington Spa, Warwickshire CV31 1LB (GB). PARKER, Evan, Hubert, Cresswell [GB/GB]; The Orchard, Back Ends, Chipping Campden, Gloucestershire GL55 6AU (GB). GRASBY, Timothy, John [GB/GB]; 3 Clover Cottage, Station Road, Salford Priors, Worcestershire WR11 8UX (GB). (74) Agents: HARDING, Richard, Patrick et al.; Marks & Clerk, 4220 Nash Court, Oxford Business Park South, Oxford, Oxfordshire OX4 2RU (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

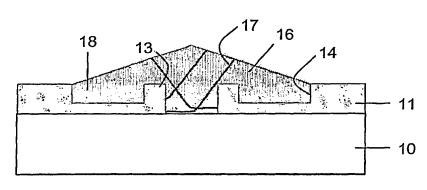
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims and statement

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FORMATION OF LATTICE-TUNING SEMICONDUCTOR SUBSTRATES



(57) Abstract: A method of forming a lattice-tuning semiconductor substrate comprises defining a selected area (12) of a Si surface (15) by means of a window (13) extending through an isolating layer (11) on the Si surface (15); defining in the isolating layer (11) a depression (14) separated from the Si surface (15) by a portion of the isolating layer (11); growing a SiGe layer (16) on top of the selected area (12) of the Si surface (15) such that dislocations (17) are formed in the window (13) to relieve the strain in the SiGe layer (16); and

further growing the SiGe layer (16) to overgrow the isolating layer (11) and extend into the depression (14) to form a substantially dislocation-free area (18) of SiGe within the depression (14). If required, the portion of the SiGe layer (16) that has overgrown the isolating layer (11) can then be removed by polishing so as to isolate the substantially dislocation-free area (18) of SiGe within the depression (14) from the area of SiGe within the window (13). Furthermore the SiGe layer (16) and the isolating layer (11) can then be removed from the Si surface (15) except in the vicinity of the depression (14) so as to leave on the Si surface (15) the substantially dislocation-free area (18) of SiGe isolated from the Si surface (15) by the portion of the isolating layer (11).

005/048330 A1